

# EUROPEAN PATENT OFFICE

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TITLE : THERMOSENSITIVE PLATE FOR PLANOGRAPHY

ABSTRACT : PROBLEM TO BE SOLVED: To provide an original plate for a thermosensitive planography where the plate which has finished exposure is set to a printing machine for printing without any processing, and is provided with excellent resistance to stains and durability for printing.

SOLUTION: A supporting body of the plate has (1) ink receptive layer including oleophilic organic high polymer, (2) hydrophilic layer, heating part of which is easily removable with a dipping water or ink during printing, including at least one oxide element among beryllium, magnesium, aluminum, silicon, titanium, boron, germanium, tin, zirconium, iron, vanadium, antimonial, and transition metals or hydroxide colloid, and (3) aqueous overcoat layer in this orderly sequence. At least one layer among an ink receptive layer, a hydrophilic layer and an overcoat layer includes photo-thermal exchange agent, and an ink receptive layer includes fine-grain having particle size from 5 to 500 nm and specific surface area not less than 45 m<sup>2</sup>/g.

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